



SECOR
INTERNATIONAL
INCORPORATED

www.secor.com

3437 Empesa Drive, Suite A
San Luis Obispo, CA 93401
805-546-0455 TEL
805-546-0583 FAX

March 14, 2005

10BP.00393.20

Mr. Corey Walsh
Regional Water Quality Control Board – Central Coast Region
895 Aerovista Place, Suite 101
San Luis Obispo, California 93401

**SUBJECT: Results of Well Destruction Activities And Request for Final Closure
ARCO Station No. 393
1201 Ysabel Avenue
Paso Robles, California
Case No. 2020**

Dear Mr. Walsh:

SECOR International Incorporated (SECOR), on behalf of Atlantic Richfield Company (Atlantic Richfield), is pleased to present this report documenting the results of the well abandonment activities and request for final closure at the above referenced site (Figure 1). The activities included the abandonment of four groundwater monitoring wells (MW-9, MW-10, MW-11, and MW-12) and one air sparge well (AS-5) (Figure 2). In a letter dated December 15, 2004, the Regional Water Quality Control Board (RWQCB) conveyed that closure was granted for the site on October 22, 2004 (Attachment A). To complete site closure, the RWQCB required that all monitoring wells be properly destroyed.

The scope of work conducted by SECOR included the following:

- Prior to destruction activities, procured well destruction permits from the San Luis Obispo County Environmental Health Department;
- Cleared well abandonment areas with a private utility locator and Underground Service Alert (USA) prior to initiating any field activities; and,
- Destroyed four groundwater monitoring wells (MW-9, MW-10, MW-11, and MW-12) and one air sparge well (AS-5) by pressure grouting.

SCOPE OF WORK

WELL ABANDONMENT

Groundwater monitoring wells MW-9 through MW-12 and air sparge well AS-5 were destroyed by pressure grouting methodologies on March 9, 2005 (Table 1). Pressure grouting methodologies were chosen instead of overdrilling because underground utilities and/or product piping was located within five feet of each of the well locations. Ownership and responsibility of monitoring well MW-8 was transferred from Atlantic Richfield to Shell Oil for their monitoring program (Attachment B). West Hazmat (C57# 554979) of Anaheim, California was contracted to perform the well destructions utilizing a CME-85 drill rig. Standard Operating Procedures (SOPs) for utility locating and well destruction by pressure grouting procedures are included in Attachment C. Copies of the well permits and boring destruction logs are provided in Attachments D and E, respectively.

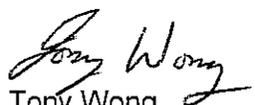
REQUEST FOR FINAL CLOSURE

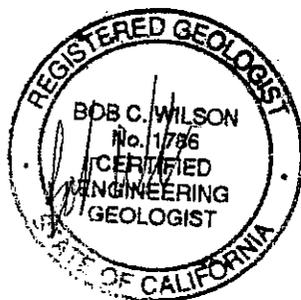
With the transfer of ownership of well MW-8, and the proper destruction of wells MW-9/AS-5, MW-10, MW-11, and MW-12, SECOR has completed the final requirements for site closure set forth by the RWQCB in the December 15, 2004 letter. Therefore, SECOR requests that final closure be granted for the site.

We are pleased to have worked with you toward closure of this site.

Sincerely,

SECOR International Incorporated


Tony Wong
Associate Scientist




Bob Wilson RG, CEG
Principal Geologist

RWQCB
March 14, 2005
Page 3

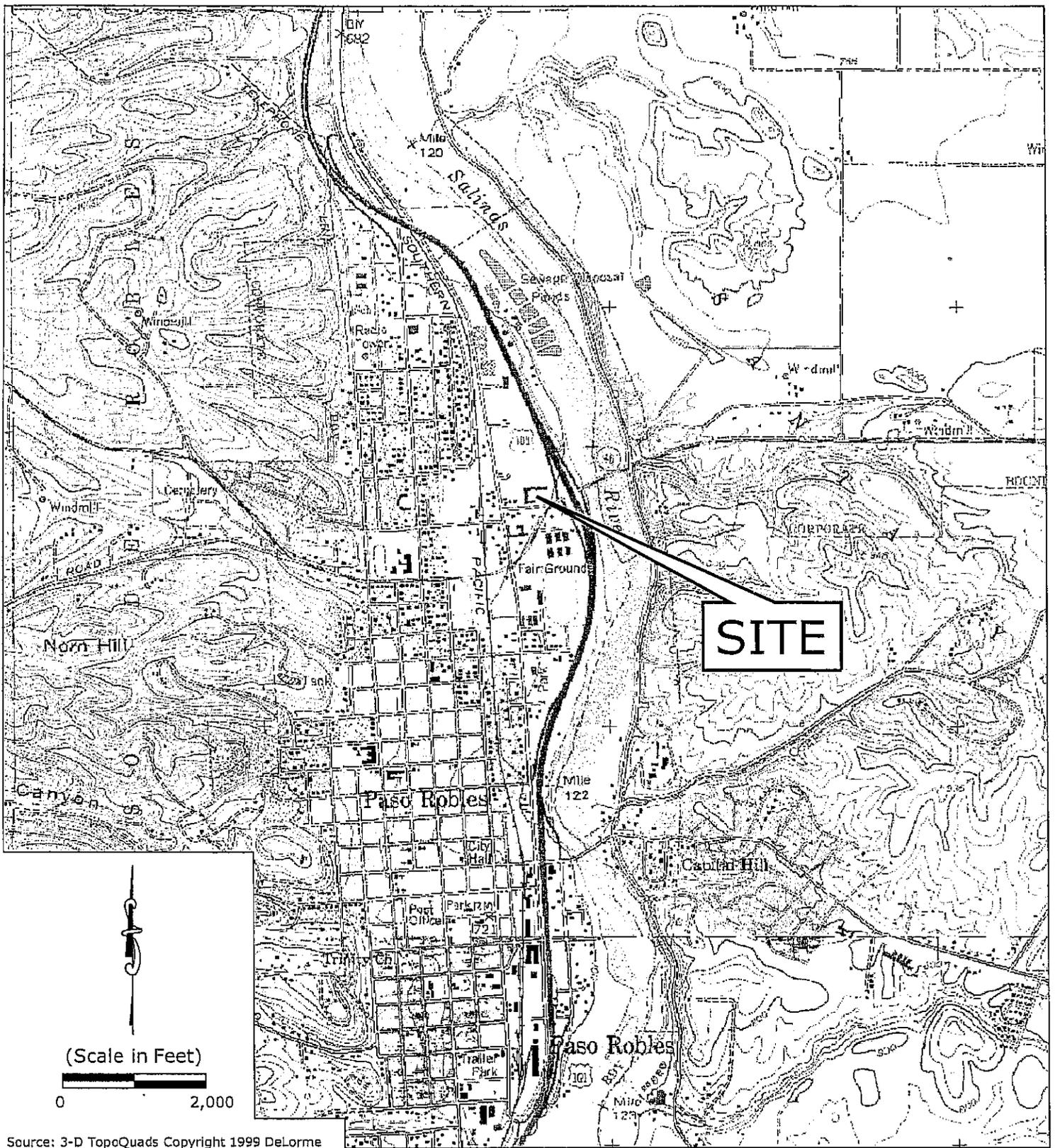
Attachments: Figure 1 – Vicinity Map
Figure 2 – Site Map
Table 1 - Well Construction Details
Table 2 - Grout Volumes

Attachment A – Agency Correspondence
Attachment B – Agreement to Transfer Ownership and Responsibilities of
Monitoring Well
Attachment C – Standard Operating Procedures
Attachment D – Well Permits
Attachment E – Boring Logs

cc: Mr. Ray Vose, Atlantic Richfield Company
Mr. Aaron LaBarre, San Luis Obispo County Environmental Health Department

P:\Clients\BP\sites\0393\Abandonment\well abandon report.DOC

FIGURES



SECOR

3437 Empesa Drive, Suite A, San Luis Obispo, CA 93401

VICINITY MAP

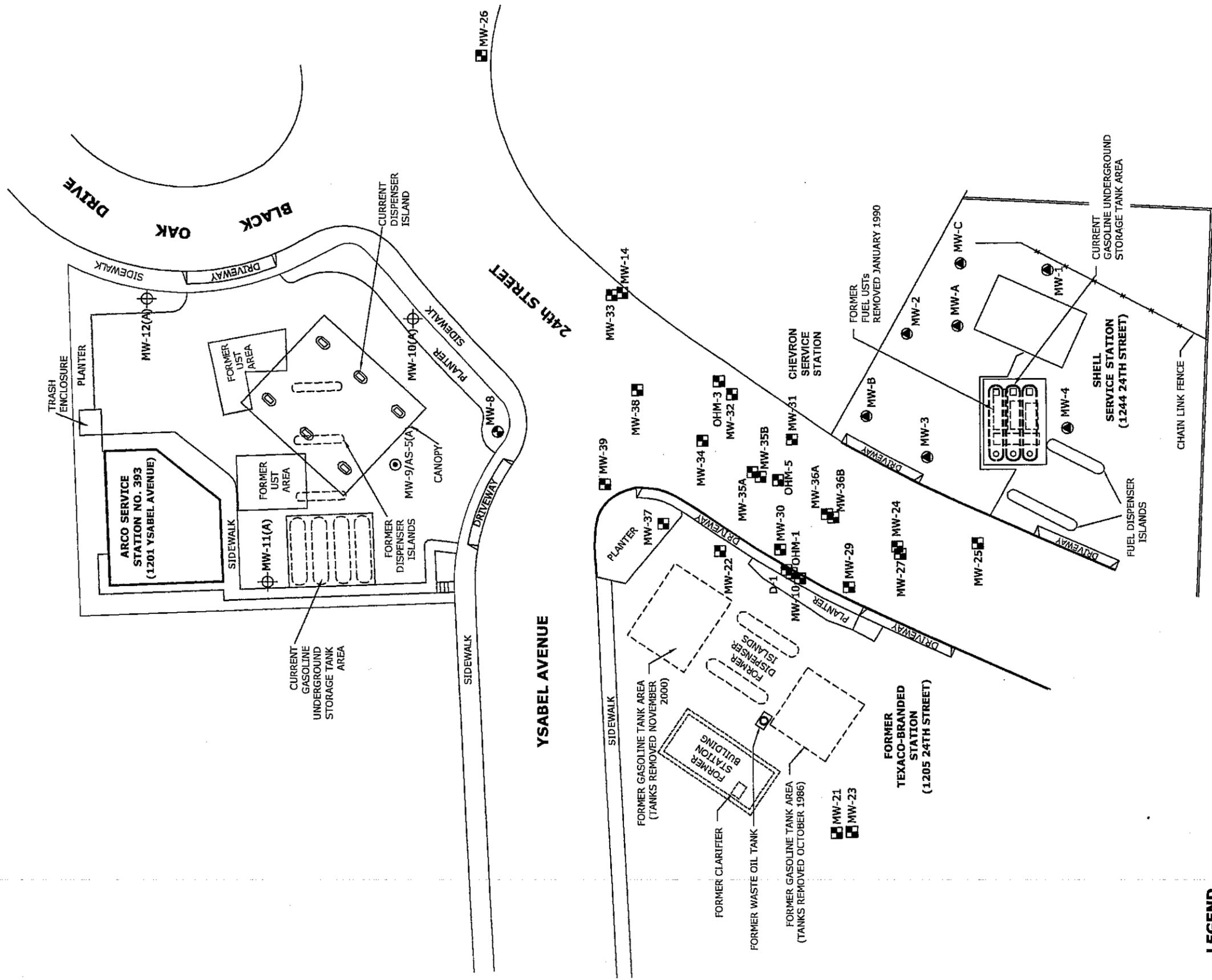
ARCO STATION NO. 393
 1201 YSABEL AVENUE
 PASO ROBLES, CALIFORNIA

FILE NAME:
 X:\CAD\Arco\Drafting_393\393_VM

PROJECT NUMBER:
 10BP.00393.01

DRAWING DATE:
 22 AUG 03

FIGURE:
 1

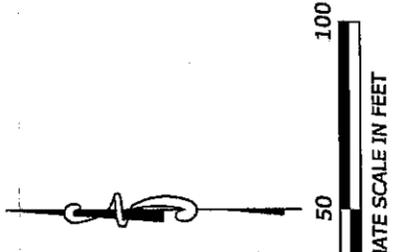


LEGEND

- MW-10 ARCO GROUNDWATER MONITORING WELL LOCATIONS
- MW-10(A) ARCO ABANDONED MONITORING WELL LOCATIONS
- MW-9/AS-5 ARCO GROUNDWATER MONITORING/AIR SPARGE WELL LOCATION
- MW-29 SHELL GROUNDWATER MONITORING WELL LOCATIONS
- MW-27 FORMER TEXACO GROUNDWATER MONITORING WELL LOCATIONS

NOTES:

1. SOURCE OF MAP: MILLER BROOKS ENVIRONMENTAL INC., AND WM HOLDING INC. SURVEYOR



DRAWN BY:	M. LUNA
CHECKED:	T. WONG
APPROVED:	B. WILSON
DATE:	09 APR 04
JOB No.:	108P.U0393.03
CAD FILE:	393_SM_MAR04

PREPARED BY:

SECOR
3437 Empressa Drive, Suite A
San Luis Obispo, California

PREPARED FOR:
ATLANTIC RICHFIELD COMPANY
ARCO STATION NO. 393
1201 YSABEL AVENUE
PASO ROBLES, CALIFORNIA

FIGURE 2

SITE MAP

TABLES

Table 1
Well Construction/ Destruction Details
ARCO Station No. 393
1201 Ysabel Avenue
Paso Robles, California

Well ID	Casing Diameter	Casing Material	Well Depth (feet below grade)	Screen Interval (feet below grade)
MW-9	4-inches	Sch. 40 PVC	15	5-15
MW-10	4-inches	Sch. 40 PVC	25	5-15
MW-11	2-inches	Sch. 40 PVC	25	5-15
MW-12	2-inches	Sch. 40 PVC	25	5-15
AS-5	2-inches	Sch. 40 PVC	22	20-22

Table 2
 Grout Volumes
 ARCO Station No. 393
 1201 Ysabel Avenue
 Paso Robles, California

Well ID	Well Depth (feet)	Filter Pack Depth (feet)	Casing Diameter (inches)	Borehole Diameter (inches)	Borehole Radius Squared (square feet)	Casing Radius Squared (square feet)	Screened Casing Volume (cubic feet)	Borehole Volume (cubic feet)	Filter Pack Plus Screened Casing Volume (cubic feet)	Filter Pack Volume (cubic feet)	30% Filter Pack Volume (cubic feet)	Estimated Grout Volume (cubic feet)	Estimated Grout Volume (gallons)	Actual Grout Volume (gallons)
MW-9	15	12	4	10	0.17	0.0278	1.047	8.18	6.54	5.50	1.65	3.0	22	35
MW-10	25	20	4	10	0.17	0.0278	1.744	13.63	10.90	9.16	2.75	2.18	37	45
MW-11	25	20	2	8	0.11	0.0069	0.436	8.64	6.91	6.47	1.94	0.55	19	22
MW-12	25	20	2	8	0.11	0.0069	0.436	8.64	6.91	6.47	1.94	0.55	19	28
AS-5	22	3	2	8	0.11	0.0069	0.065	7.60	1.04	0.97	0.29	0.48	6	20

ATTACHMENT A
AGENCY CORRESPONDENCE



California Regional Water Quality Control Board



Terry Tamminen
Secretary for
Environmental
Protection

Central Coast Region

Arnold Schwarzenegger
Governor

Internet Address: <http://www.waterboards.ca.gov/centralcoast>
895 Aerovista Place, Suite 101, San Luis Obispo, California 93401
Phone (805) 549-3147 • FAX (805) 543-0397

December 15, 2004

Mr. Raymond Vose
ARCO Products Co.
4 Centerpointe Drive
La Palma, CA 90623

Dear Mr. Vose:

UST: 1201 YSABEL AVENUE, PASO ROBLES, SAN LUIS OBISPO COUNTY; ARCO SERVICE STATION NO. 393; CASE CLOSURE APPROVAL (RB CASE NO. 2020)

At the October 22, 2004 meeting, the Regional Board concurred with staff's recommendation to close this leaking underground storage tank case. Therefore, we have no further requirements for site investigation and cleanup with regard to the former documented release. However, the Regional Board requires proper destruction of wells to eliminate possible conduits for contaminant transport. All monitoring wells located at the site shall be properly destroyed by a C-57 licensed well driller and supervised by a registered geologist or professional engineer. Proper well destruction requires compliance with California Department of Water Resources Bulletin No. 74-81 and Supplement No. 74-90, Porter Cologne Water Quality Control Act Sections 13710 through 13755, and any local requirements. Please submit a well destruction report to this office and San Luis Obispo County Division of Environmental Health by **February 28, 2005**.

Regional Board staff understands that one or more of your existing monitoring wells are to be transferred to an adjacent site's responsible party. Please submit a list of wells to be transferred and provide a signed agreement of ownership transfer to this office. Monitoring wells no longer required or that are not transferred to a different owner shall be properly destroyed as a final condition of case closure.

Failure to comply with these requirements will subject the responsible party to enforcement action by the Regional Board, including issuance of an order under Water Code Sections 13267, and potential administrative civil liabilities.

California Environmental Protection Agency



Recycled Paper

Please contact Corey Walsh at (805) 542-4781 or via new e-mail address at cwalsh@waterboards.ca.gov of our office if you have any questions regarding this matter.

Sincerely,


for Roger W. Briggs
Executive Officer

S:\UST\Regulated Sites\San Luis Obispo Co\Paso Robles\1201 Ysabel Av\RequestWellAband.doc

cc:

Mr. Bob Wilson
SECOR International, Inc.
3437 Empresa Drive, Ste. A
San Luis Obispo, CA 93401-7355

Mr. Ed Paden
Shell Oil Products US
20945 S. Wilmington
Carson, CA 90810

Mr. Scott Milner
San Luis Obispo County
Division of Environmental Health
P.O. Box 1489
San Luis Obispo, CA 93406

Mr. Karl Bewley
Miller Brooks Environmental, Inc.
2124 Main Street, Suite 200
Huntington Beach, CA 92648-6450

Mr. Mark Matranga
SWRCB-DCWP
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120

Mr. Justin Ezell
City of Paso Robles Water Operations
1230 Paso Robles Street
Paso Robles, CA 93446

Blacks Hatchery and Turkey Farms
P.O. Box 486
Paso Robles, CA 93447



ATTACHMENT B

**AGREEMENT TO TRANSFER OWNERSHIP
AND RESPONSIBILITY OF MONITORING WELL**

Agreement to Transfer Ownership and Responsibility of Monitoring Well

THIS AGREEMENT to Transfer Ownership and Responsibility of Monitoring Well ("Agreement") is entered into as of January 13, 2005 (the "Effective Date") by and between the Atlantic Richfield Company ("Atlantic Richfield") and Shell Oil Products U.S. ("Shell") hereinafter sometimes collectively referred to as the "Parties".

WHEREAS, Atlantic Richfield installed a monitoring well identified as MW-8 on the property located at 1201 Ysabel Avenue, Paso Robles, California (the "Property"). The location of the monitoring well (hereinafter collectively referred to as the "Well" is shown on the site map attached hereto as Exhibit A.

WHEREAS, the Parties desire to transfer ownership of the Well to Shell.

NOW THEREFORE, the parties agree as follows:

1. Ownership of and responsibility for the Well is hereby transferred from Atlantic Richfield to Shell as of the Effective Date of this Agreement.
2. Shell shall be responsible for ensuring that all applicable permits and obligations required by any governmental agency having appropriate jurisdiction in connection with the construction, operation, maintenance or use of monitoring and recovery wells are properly transferred to Shell.
3. Responsibilities of Shell with respect to the Well include, but are not limited to, wellhead maintenance, sampling and monitoring, compliance with permitting and any other governmental requirements, and proper abandonment at the completion of its use.
4. Shell shall indemnify and hold Atlantic Richfield harmless from any and all liability, damage, expense, causes of action, suits, claims, or judgments, including reasonable attorneys fees, resulting from failure to comply with governmental requirements or from injuries to persons or damage to property, which arise out of the use by Shell of the Well after the Effective Date.
5. Shell hereby accepts the Well in "AS IS" "WHERE IS" condition. Shell hereby agrees to indemnify, defend, and save Atlantic Richfield harmless from all liability, damage expense, causes of action, suites, claims or judgments, including reasonable attorneys fees, resulting from, arising out of relating to or in any way connected to the use, maintenance, condition or location of the Well.

IN WITNESS WHEREOF, the Parties hereto are authorized to and have executed this Agreement as of the day and year written above.

ATLANTIC RICHFIELD COMPANY

SHELL OIL PRODUCTS U.S.

By: Raymond S. Vee

By: Edward Paolier

Title: Environmental Business Manager

Title: Environmental Engineer

Address: 6 Centerpointe Dr
La Palma CA 90623

Address: 20945 S Wilmington Ave
Carson, CA 90810

ATTACHMENT C
STANDARD OPERATION PROCEDURES

STANDARD OPERATING PROCEDURES

The following section describes field techniques that are performed by SECOR personnel in the performance of the tasks involved with this project.

LOCATING UNDERGROUND UTILITIES

Prior to the commencement of work on site, SECOR will mark the boring locations on site with white paint and research the location of all underground utilities with the assistance of Underground Service Alert (USA) and a private utility locating service. Per BP safety guidelines, all soil boring/well locations will be greater than 10 feet from a known subsurface utility or UST system component. USA will contact the owners of the various utilities in the vicinity of the site to have the utility owners mark the locations of their underground utilities, including (but not limited to) any plastic or metallic fuel distribution and/or vent lines, sewer lines, electric piping conduits, water lines, natural gas lines, and any other unmarked utilities.

WELL DESTRUCTION PROCEDURES BY PRESSURE GROUTING

The following section describes the standard field procedures used for destruction by pressure grouting of shallow wells with a continuous-flight, hollow-stem drilling rig. The goal of the destruction by pressure grouting technique is to seal the well materials in-place by pumping a viscous grout down the casing and into the filter pack.

Abandonment by Pressure Grouting Procedure

A neat cement/bentonite grout mixture will be pumped into the 2 and 4-inch wells through a 1-inch hose under a pressure of approximately 250 pounds per square inch. The grout mixture ratio will consist of one 94-pound bag of Portland cement with approximately 5 to 10 percent of bentonite powder and approximately 7 to 8 gallons of water. The grout material will be pumped through the hose in one continuous operation from the bottom of the well screen to the top of the screen. A cap will be tightly secured on the top of the well casing during the pumping operations in order to control the water and grout discharge as well as aid in developing an adequate pressure within the well. Once the calculated amount of grout is pumped into the well and grout is discharging through the small hole in the secured cap, the grouting operations will be terminated. The estimated volume of grout to be used for each well is included in Table 2. The estimated grout volume was calculated by adding 30% of the total volume of the filter pack (the estimated total amount of space between sand granules), and the total casing volume. Following pressure grouting, the well will be covered with paving material or landscaped to match the surrounding surface materials and grade.

ATTACHMENT D

WELL PERMITS



COUNTY OF SAN LUIS OBISPO

PUBLIC HEALTH DEPARTMENT

Environmental Health Services

2156 Sierra Way • P.O. Box 1489

San Luis Obispo, CA 93406-1489

Phone: (805) 781-5544 FAX: (805) 781-4211

2005-11100-014

OFFICE USE

Permit No. _____

Application Approved

Date 1/31/05

By: Aratt Mail

WELL PERMIT APPLICATION MH-9/AS-5

Name of Well Owner BP/SECOR Phone No. 805.5460455

Mailing Address 3437 Empressa Dr, Ste A San Luis Obispo CA 93401

Name of Drilling Contractor Test America C-57 License No. 554979

Drilling Company Name Test America

Business Address 1016 F Katella Rd, Anaheim, CA 92805 Phone No. 714937.6850

Proposed Well Site Address 1201 Ysabel Rd. Area of County Poso Obles

Assessor's Parcel No. 008-132-011 Township JUS Range 10E Section 28

Parcel Size (acres) _____ In Coastal Zone? _____ GPS Coordinates 35.6423, 46.11 N -112.6863026 W

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." Drilling shall not commence until this application is approved.

Well Type	Purpose of Well		Drilling Method	
Construction <input type="checkbox"/>	Domestic Private <input type="checkbox"/>	Soil Testing <input type="checkbox"/>	Rotary <input type="checkbox"/>	Cable Tool <input type="checkbox"/>
Destruction <u>MH 9/AS 5</u> <input checked="" type="checkbox"/>	Domestic Public <input type="checkbox"/>	Cathodic <input type="checkbox"/>	Reverse Rotary <input type="checkbox"/>	Other <input type="checkbox"/>
Repair/Modify <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Industrial <input type="checkbox"/>	Air Rotary <input type="checkbox"/>	
Inactivation <input type="checkbox"/>	Monitoring <input type="checkbox"/>	Test Well <input checked="" type="checkbox"/>		

Proposed Depth 22' Casing Diameter 4" Annular Seal Depth _____

Do you anticipate drilling into a water bearing formation that has the potential to degrade a higher quality aquifer? Yes No

If yes, please explain _____

Is there any known potential to encounter a water bearing formation where levels of water quality constituents such as nitrate, selenium, hydrogen sulfide, boron, organics, etc., are a concern? Yes No If yes, please explain _____

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within fifteen days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.

Signed Karl Henn Date 1/28/05
Applicant

OFFICE USE ONLY

Received By [Signature] Date 1-28-05 Fee Paid \$ 75- Check # 611813

Well Site Approved Yes No By Aratt Mail Date 1/31/05

Site Letter _____ X-Conn Letter _____ Special Requirements and/or _____

Comments for Drilling Contractor _____

Water Quality Testing Conducted? Yes No Constituents Tested for _____

Well Seal Witnessed? Yes No By _____ Date _____ Seal Depth _____

Well Site Approval GPS Coordinates _____ N _____ W

Well Seal GPS Coordinates _____ N _____ W

Final Letter Sent? Yes No Date _____ Comments _____

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO

PUBLIC HEALTH DEPARTMENT

Environmental Health Services

2156 Sierra Way • P.O. Box 1489

San Luis Obispo, CA 93406-1489

Phone: (805) 781-5544 FAX: (805) 781-4211

2005-MWD-015
OFFICE USE

Permit No. _____

Application Approved

Date 1/31/05

By: Scott J. Hill

WELL PERMIT APPLICATION

146-10

Name of Well Owner BP/SECOR Phone No. 805.546.0455

Mailing Address 3437 Empress Dr. Ste A, San Luis Obispo, CA 93401

Name of Drilling Contractor Test America C-57 License No. 554979

Drilling Company Name Test America

Business Address 1016 E. Matella Rd., Anaheim, CA 92805 Phone No. 714.939.6850

Proposed Well Site Address 1201 Ysabel Rd. Area of County Paso Robles

Assessor's Parcel No. 008-132-011 Township 26S Range 12E Section 29

Parcel Size (acres) _____ In Coastal Zone? _____ GPS Coordinates 35.642304611 N - 120.6863026 W

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." Drilling shall not commence until this application is approved.

Well Type	Purpose of Well	Drilling Method
Construction <input type="checkbox"/>	Domestic Private <input type="checkbox"/>	Soil Testing <input type="checkbox"/>
Destruction <u>146-10</u> <input checked="" type="checkbox"/>	Domestic Public <input type="checkbox"/>	Cathodic <input type="checkbox"/>
Repair/Modify <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Industrial <input type="checkbox"/>
Inactivation <input type="checkbox"/>	Monitoring <input checked="" type="checkbox"/>	Test Well <input checked="" type="checkbox"/>
		Rotary <input type="checkbox"/>
		Reverse Rotary <input type="checkbox"/>
		Air Rotary <input type="checkbox"/>
		Cable Tool <input type="checkbox"/>
		Other <input type="checkbox"/>

Proposed Depth 25' Casing Diameter 2" Annular Seal Depth _____

Do you anticipate drilling into a water bearing formation that has the potential to degrade a higher quality aquifer? Yes No
If yes, please explain _____

Is there any known potential to encounter a water bearing formation where levels of water quality constituents such as nitrate, selenium, hydrogen sulfide, boron, organics, etc., are a concern? Yes No If yes, please explain _____

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within fifteen days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.

Signed Phil Hanson Date 1/28/05
Applicant

OFFICE USE ONLY

Received By [Signature] Date 1-28-05 Fee Paid \$ 72- Check # 6011813

Well Site Approved Yes No By Scott J. Hill Date 1/31/05

Site Letter _____ X-Conn Letter _____ Special Requirements and/or _____

Comments for Drilling Contractor _____

Water Quality Testing Conducted? Yes No Constituents Tested for _____

Well Seal Witnessed? Yes No By _____ Date _____ Seal Depth _____

Well Site Approval GPS Coordinates _____ N _____ W _____

Well Seal GPS Coordinates _____ N _____ W _____

Final Letter Sent? Yes No Date _____ Comments _____

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO

PUBLIC HEALTH DEPARTMENT

Environmental Health Services

2156 Sierra Way • P.O. Box 1489

San Luis Obispo, CA 93406-1489

Phone: (805) 781-5544 FAX: (805) 781-4211

2005-MWD-013
OFFICE USE

Permit No. _____

Application Approved

Date 1 / 31 / 05

By: [Signature]

WELL PERMIT APPLICATION

MW-11

Name of Well Owner BP/SECOR Phone No. 805.596.0955
 Mailing Address 3437 Empress Dr. Ste A. San Luis Obispo, CA 93401
 Name of Drilling Contractor Test America C-57 License No. 554979
 Drilling Company Name 1016 E. Catalina Rd., Anaheim, CA 92805
 Business Address Phone No. 714.939.6850

Proposed Well Site Address 1201 Ysabel Rd. Area of County Paso Robles
 Assessor's Parcel No. 008-132-011 Township 26E Range 12E Section 2B
 Parcel Size (acres) _____ In Coastal Zone? _____ GPS Coordinates 35.642324611 N -120.6863026 W

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." Drilling shall not commence until this application is approved.

Well Type	Purpose of Well	Drilling Method
Construction <input type="checkbox"/>	Domestic Private <input type="checkbox"/>	Soil Testing <input type="checkbox"/>
Destruction <input checked="" type="checkbox"/> MW-11	Domestic Public <input type="checkbox"/>	Cathodic <input type="checkbox"/>
Repair/Modify <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Industrial <input type="checkbox"/>
Inactivation <input type="checkbox"/>	Monitoring <input type="checkbox"/>	Test Well <input checked="" type="checkbox"/>
		Rotary <input type="checkbox"/>
		Cable Tool <input type="checkbox"/>
		Reverse Rotary <input type="checkbox"/>
		Other <input type="checkbox"/>
		Air Rotary <input type="checkbox"/>

Proposed Depth 25' Casing Diameter 2" Annular Seal Depth _____

Do you anticipate drilling into a water bearing formation that has the potential to degrade a higher quality aquifer? Yes No
 If yes, please explain _____

Is there any known potential to encounter a water bearing formation where levels of water quality constituents such as nitrate, selenium, hydrogen sulfide, boron, organics, etc., are a concern? Yes No
 If yes, please explain _____

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within fifteen days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.

Signed [Signature] Date 1/28/05
 Applicant

OFFICE USE ONLY

Received By [Signature] Date 1-28-05 Fee Paid \$ 77- Check # 611813
 Well Site Approved Yes No By [Signature] Date 1/31/05
 Site Letter _____ X-Conn Letter _____ Special Requirements and/or _____
 Comments for Drilling Contractor _____

Water Quality Testing Conducted? Yes No Constituents Tested for _____
 Well Seal Witnessed? Yes No By _____ Date _____ Seal Depth _____
 Well Site Approval GPS Coordinates _____ N _____ W _____
 Well Seal GPS Coordinates _____ N _____ W _____
 Final Letter Sent? Yes No Date _____ Comments _____

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE



COUNTY OF SAN LUIS OBISPO

PUBLIC HEALTH DEPARTMENT

Environmental Health Services

2156 Sierra Way • P.O. Box 1489

San Luis Obispo, CA 93406-1489

Phone: (805) 781-5544 FAX: (805) 781-4211

2005-MWD-016

OFFICE USE

Permit No. _____

Application Approved

Date 1/31/05

By: Scott Trub

ML-D

WELL PERMIT APPLICATION

Name of Well Owner BP/SECOR Phone No. 805.546.0455
 Mailing Address 3437 Empress Dr, Ste A, San Luis Obispo, CA 93401
 Name of Drilling Contractor Test America C-57 License No. 554979
 Drilling Company Name Test America
 Business Address 1016 E. Hatella Rd, Anaheim, CA 92805 Phone No. 714.939.6350

Proposed Well Site Address 1201 Ysabel Rd. Area of County Paso Robles
 Assessor's Parcel No. 008-132-011 Township LR 205 Range 101E Section 28
 Parcel Size (acres) _____ In Coastal Zone? _____ GPS Coordinates 35.642304611 N -120.6863026 W

Note: The "Well Permit Plot Plan" shall be attached to this application and indicate within a two hundred foot radius around the proposed well the following items: A) Property lines, B) Sewage disposal and/or sewer lines, C) Animal enclosures and/or any other concentrated sources of pollution, D) All intermittent or perennial, natural or artificial water bodies or water courses, E) Surface water drainage pattern of the site, F) Existing wells, G) Access roads. The proposed site shall be designated with a flagged surveyor's stake labeled "Well Site." Drilling shall not commence until this application is approved.

Well Type	Purpose of Well		Drilling Method	
Construction <input type="checkbox"/>	Domestic Private <input type="checkbox"/>	Soil Testing <input type="checkbox"/>	Rotary <input type="checkbox"/>	Cable Tool <input type="checkbox"/>
Destruction <input checked="" type="checkbox"/>	Domestic Public <input type="checkbox"/>	Cathodic <input type="checkbox"/>	Reverse Rotary <input type="checkbox"/>	Other <input type="checkbox"/>
Repair/Modify <input type="checkbox"/>	Irrigation <input type="checkbox"/>	Industrial <input type="checkbox"/>	Air Rotary <input type="checkbox"/>	
Inactivation <input type="checkbox"/>	Monitoring <input checked="" type="checkbox"/>	Test Well <input type="checkbox"/>		

Proposed Depth 25' Casing Diameter 2" Annular Seal Depth _____

Do you anticipate drilling into a water bearing formation that has the potential to degrade a higher quality aquifer? Yes No
 If yes, please explain _____
 Is there any known potential to encounter a water bearing formation where levels of water quality constituents such as nitrate, selenium, hydrogen sulfide, boron, organics, etc., are a concern? Yes No If yes, please explain _____

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair or modification. Within fifteen days after completion of the well, I will furnish Environmental Health Services with a completed well log. This application becomes a valid permit following sign off by Environmental Health Services.

Signed Mark Henson Date 1/28/05
 Applicant

OFFICE USE ONLY

Received By SW Date 1-28-05 Fee Paid \$ 70- Check # 611813
 Well Site Approved Yes No By Scott Trub Date 1/31/05
 Site Letter _____ X-Conn Letter _____ Special Requirements and/or _____
 Comments for Drilling Contractor _____

Water Quality Testing Conducted? Yes No Constituents Tested for _____
 Well Seal Witnessed? Yes No By _____ Date _____ Seal Depth _____
 Well Site Approval GPS Coordinates _____ N _____ W _____
 Well Seal GPS Coordinates _____ N _____ W _____
 Final Letter Sent? Yes No Date _____ Comments _____

PERMIT IS VALID FOR SIX MONTHS FROM ISSUANCE

ATTACHMENT E

BORING LOGS



Logged By: K.HENNING	Date: 3/9/05	Contractor: WEST HAZMAT	Project Name: ARCO 393	Method/Equipment: PRESSURE GROUTING	Log ID: AS-5
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Monitoring Device: NA	Boring Diameter (in): 10	Surface Elevation (ft): NA	Groundwater Depth (ft): NA	Total Depth (ft): 22	Drive Weight (lbs): NA	Drop Distance (in): NA
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Abandonment Details	Depth (Feet)	Sample Collected	Blows per 6"	LITHOLOGIC DESCRIPTION (SOIL DESCRIPTION (USCS symbol): color, moisture, consistency, odor, other)	PID/FID Readings (ppm)	Time Sample Collected
	0			Abandoned by pressure grouting using neat cement/bentonite grout mix. Injected 20 gallons	0	
	1				1	
	2				2	
	3				3	
	4				4	
	5				5	
	6				6	
	7				7	
	8				8	
	9				9	
	10				10	
	11				11	
	12				12	
	13				13	
	14				14	
	15			15		

NEAT CEMENT/BENTONITE GROUT



SECOR

Logged By: K.HENNING	Date: 3/9/05	Project Name: ARCO 393	Log ID: AS-5
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Abandonment Details		Depth (Feet)	Sample Collected	Blows per 6"	LITHOLOGIC DESCRIPTION (SOIL DESCRIPTION (USCS symbol): color, moisture, consistency, odor, other)	PID/FID Readings (ppm)	Time Sample Collected
	NEAT CEMENT/BENTONITE GROUT	15					
		16					
		17					
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					
		30					



Logged By: K.HENNING	Date: 3/9/05	Contractor: WEST HAZMAT	Project Name: ARCO 393	Method/Equipment: PRESSURE GROUTING	Log ID: MW-9
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Monitoring Device: NA	Boring Diameter (in): 10	Surface Elevation (ft): NA	Groundwater Depth (ft): NA	Total Depth (ft): 15	Drive Weight (lbs): NA	Drop Distance (in): NA
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Abandonment Details	Depth (Feet)	Sample Collected	Blows per 6"	LITHOLOGIC DESCRIPTION (SOIL DESCRIPTION (USCS symbol); color, moisture, consistency, odor, other)	PID/FID Readings (ppm)	Time Sample Collected



Logged By: K.HENNING	Date: 3/9/05	Contractor: WEST HAZMAT	Project Name: ARCO 393	Method/Equipment: PRESSURE GROUTING	Log ID: MW-10
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Monitoring Device: NA	Boring Diameter (in): 10	Surface Elevation (ft): NA	Groundwater Depth (ft): NA	Total Depth (ft): 25	Drive Weight (lbs): NA	Drop Distance (in): NA
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Abandonment Details	Depth (Feet)	Sample Collected	Blows per 6"	LITHOLOGIC DESCRIPTION (SOIL DESCRIPTION (USCS symbol); color, moisture, consistency, odor, other)	PID/FID Readings (ppm)	Time Sample Collected
	0			Abandoned by pressure grouting using neat cement/bentonite grout mix. Injected 45 gallons	0	
	1				1	
	2				2	
	3				3	
	4				4	
	5				5	
	6				6	
	7				7	
	8				8	
	9				9	
	10				10	
	11				11	
	12				12	
	13				13	
	14				14	
	15			15		

NEAT CEMENT/BENTONITE GROUT



SECOR

Logged By: K.HENNING	Date: 3/9/05	Project Name: ARCO 393	Log ID: MW-10
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Abandonment Details	Depth (Feet)	Sample Collected	Blows per 6"	LITHOLOGIC DESCRIPTION (SOIL DESCRIPTION (USCS symbol); color, moisture, consistency, odor, other)	PID/FID Readings (ppm)	Time Sample Collected
NEAT CEMENT/BENTONITE GROUT	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					



Logged By: K.HENNING	Date: 3/9/05	Contractor: WEST HAZMAT	Project Name: ARCO 393	Method/Equipment: PRESSURE GROUTING	Log ID: MW-11
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Monitoring Device: NA	Boring Diameter (in): 8	Surface Elevation (ft): NA	Groundwater Depth (ft): NA	Total Depth (ft): 25	Drive Weight (lbs): NA	Drop Distance (in): NA
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Abandonment Details	Depth (Feet)	Sample Collected	Blows per 6"	LITHOLOGIC DESCRIPTION (SOIL DESCRIPTION (USCS symbol); color, moisture, consistency, odor, other)	*PID/FID Readings (ppm)	Time Sample Collected
	0			Abandoned by pressure grouting using neat cement/bentonite grout mix. Injected 22 gallons	0	
	1				1	
	2				2	
	3				3	
	4				4	
	5				5	
	6				6	
	7				7	
	8				8	
	9				9	
	10				10	
	11				11	
	12				12	
	13				13	
	14				14	
	15			15		

NEAT CEMENT/BENTONITE GROUT



Logged By: K.HENNING	Date: 3/9/05	Project Name: ARCO 393	Log ID: MW-11
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Abandonment Details			Depth (Feet)	Sample Collected	Blows per 6"	LITHOLOGIC DESCRIPTION (SOIL DESCRIPTION (USCS symbol); color, moisture, consistency, odor, other)	PID/FID Readings (ppm)	Time Sample Collected
		NEAT CEMENT/BENTONITE GROUT	15				15	
			16				16	
			17				17	
			18				18	
			19				19	
			20				20	
			21				21	
			22				22	
			23				23	
			24				24	
			25				25	
			26				26	
			27				27	
			28				28	
			29				29	
			30				30	



Logged By: K.HENNING	Date: 3/9/05	Contractor: WEST HAZMAT	Project Name: ARCO 393	Method/Equipment: PRESSURE GROUTING	Log ID: MW-12
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Monitoring Device: NA	Boring Diameter (in): 8	Surface Elevation (ft): NA	Groundwater Depth (ft): NA	Total Depth (ft): 25	Drive Weight (lbs): NA	Drop Distance (in): NA
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Abandonment Details	Depth (Feet)	Sample Collected	Blows per 6"	LITHOLOGIC DESCRIPTION (SOIL DESCRIPTION (USCS symbol); color, moisture, consistency, odor, other)	PID/FID Readings (ppm)	Time Sample Collected
NEAT CEMENT/BENTONITE GROUT	0			Abandoned by pressure grouting using neat cement/bentonite grout mix. Injected 28 gallons	0	
	1				1	
	2				2	
	3				3	
	4				4	
	5				5	
	6				6	
	7				7	
	8				8	
	9				9	
	10				10	
	11				11	
	12				12	
	13				13	
	14				14	
15			15			



SECOR

Logged By: K.HENNING	Date: 3/9/05	Project Name: ARCO 393	Log ID: MW-12
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Abandonment Details	Depth (Feet)	Sample Collected	Blows per 6"	LITHOLOGIC DESCRIPTION (SOIL DESCRIPTION (USCS symbol): color, moisture, consistency, odor, other)	PID/FID Readings (ppm)	Time Sample Collected
<p>NEAT CEMENT/BENTONITE GROUT</p>	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					